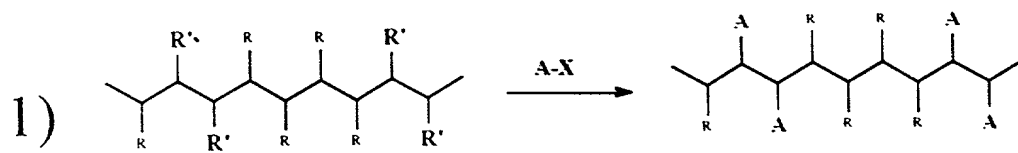
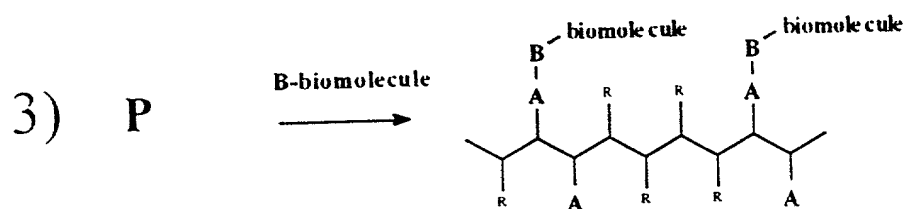
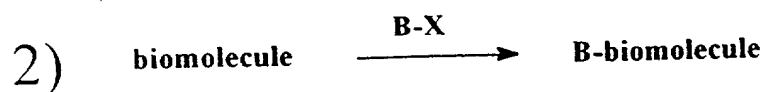


Figure 1



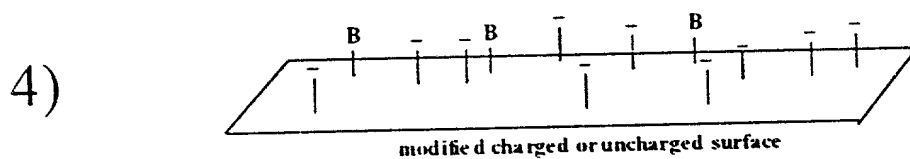
where R' is the same or
different than R

P

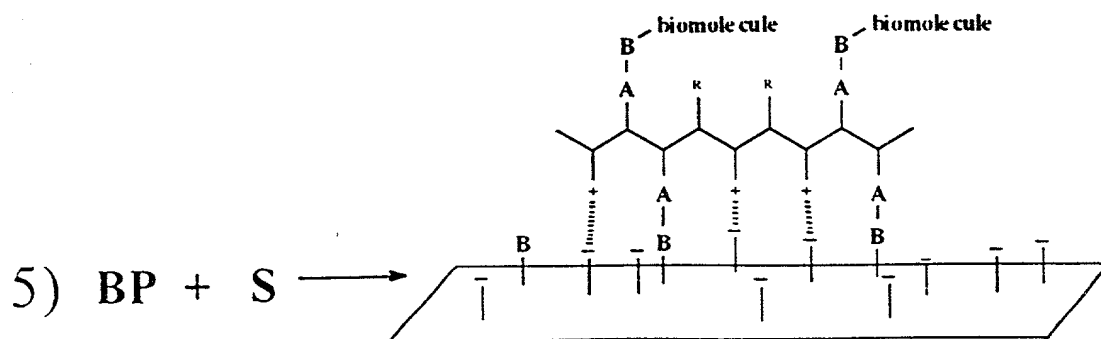


BP

biomolecule/polymer conjugate



S



BPS

biopolymer/polymer/surface ternary system

Figure 2

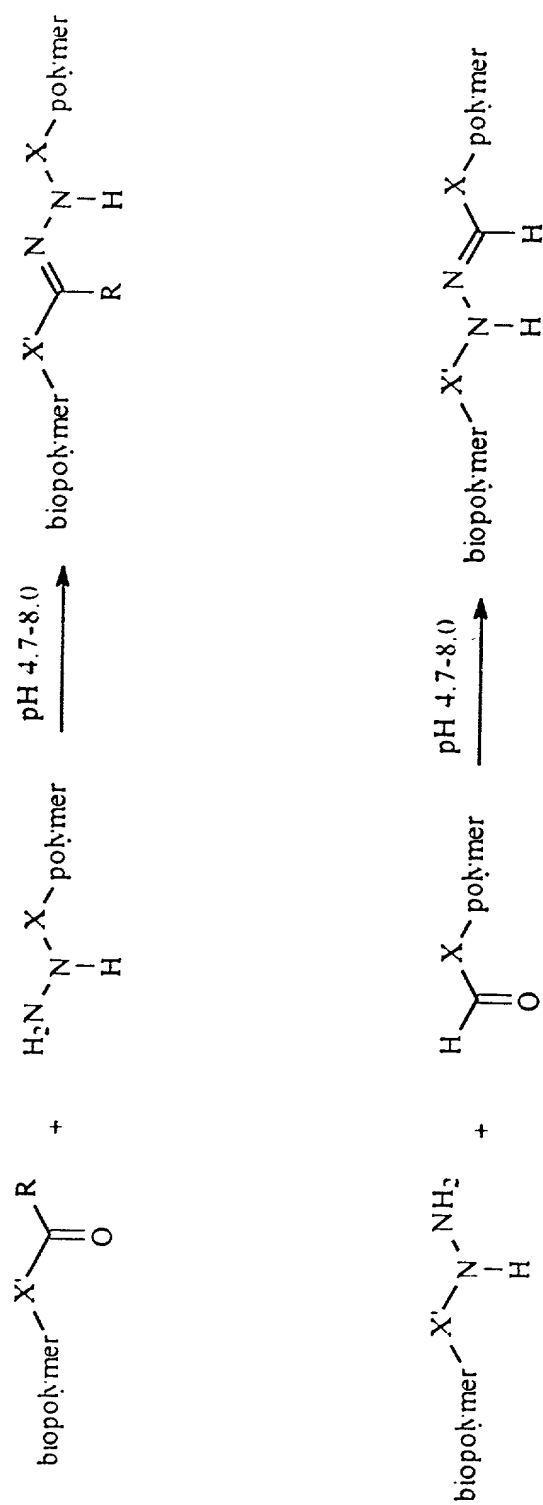
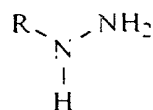
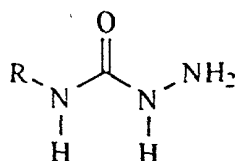


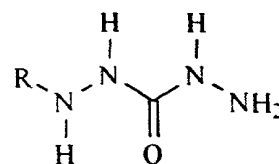
Figure 3



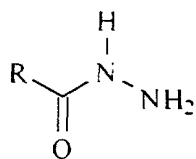
hydrazine



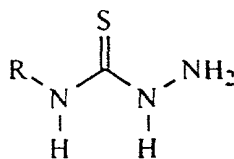
semicarbazide



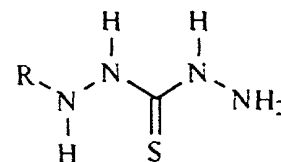
carbazide



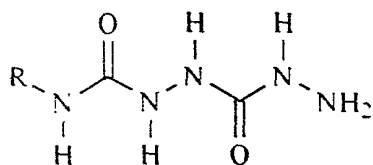
hydrazide



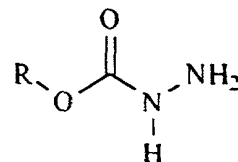
thiosemicarbazide



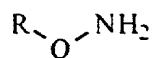
thiocarbazide



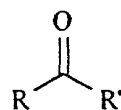
carbonic acid dihydrazine



hydrazine carboxylate



aminooxy



R = alkyl, aromatic or heteroaromatic group

R' = H or straight, branched or cyclic alkyl moiety
or aromatic or heteroaromatic moiety

carbonyl derivatives

10050277-042402

Figure 4

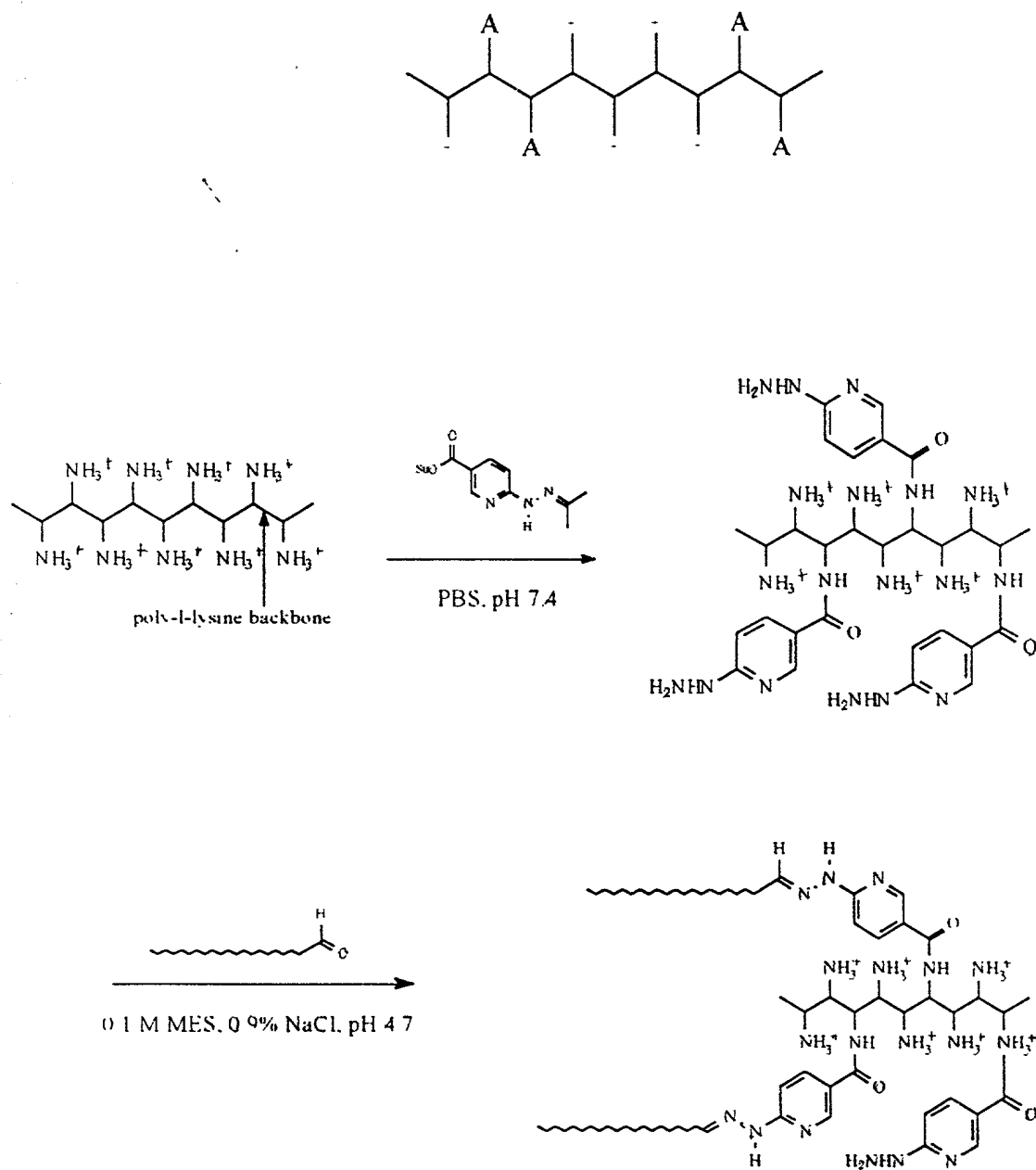


Figure 5

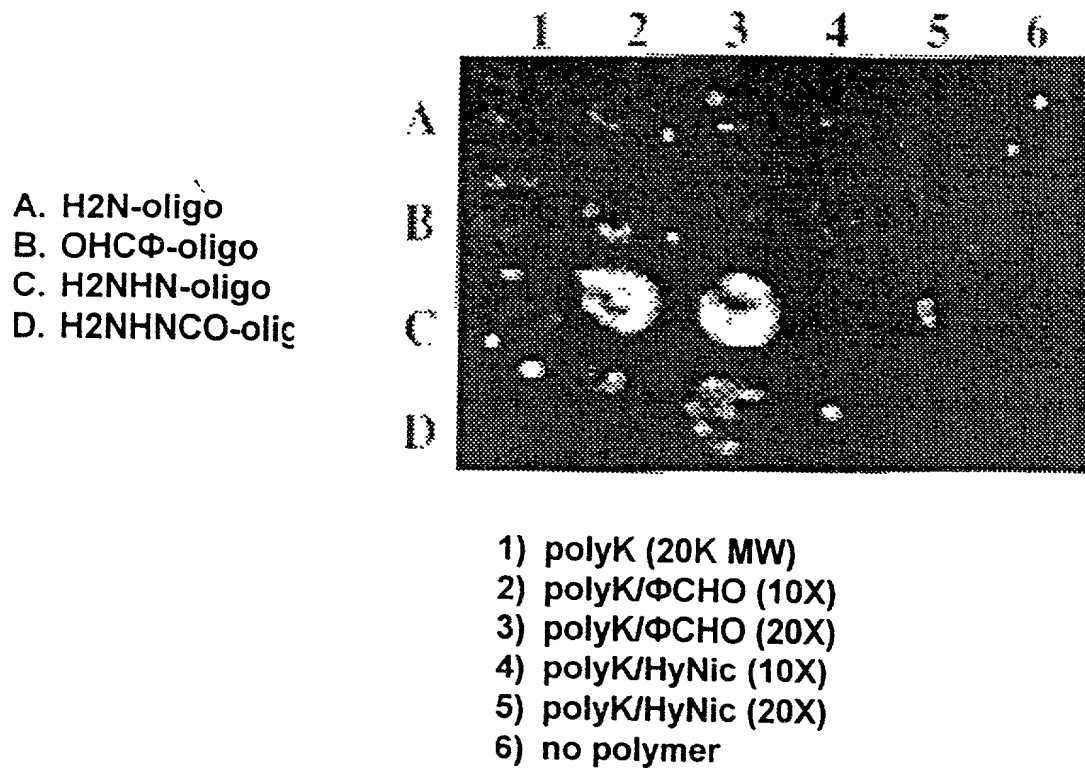
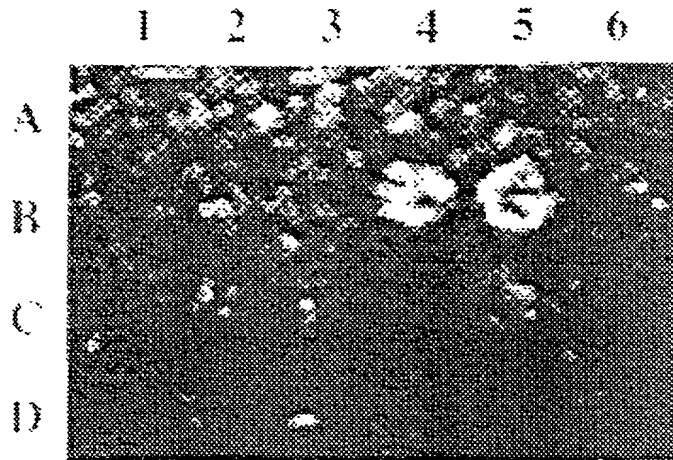


Figure X: Matrix experiment (see Example 2) demonstrating the covalent nature of the immobilization of a 5'-hydrazino oligo//sCHO/poly-L-lysine (polyK) conjugate on an amino modified glass slide following hybridization to its fluorescent complement.

Figure 6

- A. H₂N-oligo
B. OHC-oligo
C. H₂NHN-oligo
D. H₂NHNCO-oligo



- 1) polyK (20K MW)
2) polyK/sCHO (10X)
3) polyK/sCHO (20X)
4) polyK/HyNic (10X)
5) polyK/HyNic (20X)
6) no polymer

204240-042402

Figure 7

